



HUMAN SPACE MISSION LIFE SUPPORT SYSTEM ACTIVITY Gas Sensor Team Avionics, IIST

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OUR TEAM :

Dr. Palash Kumar Basu

Chemical sensor

•Anjitha R G (Ph.D. Scholar)

•Nisha Shreyan (Ph.D. Scholar)

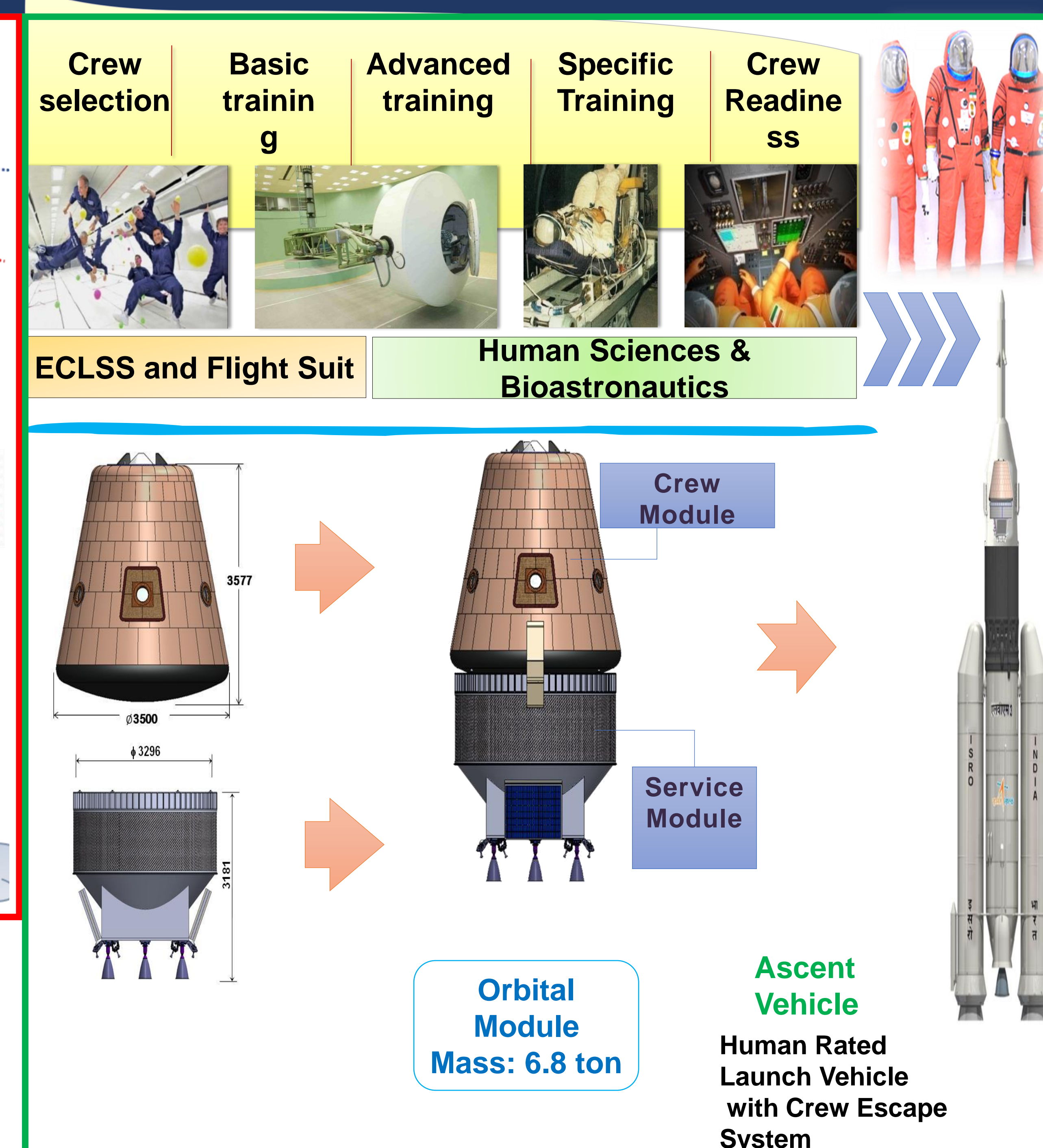
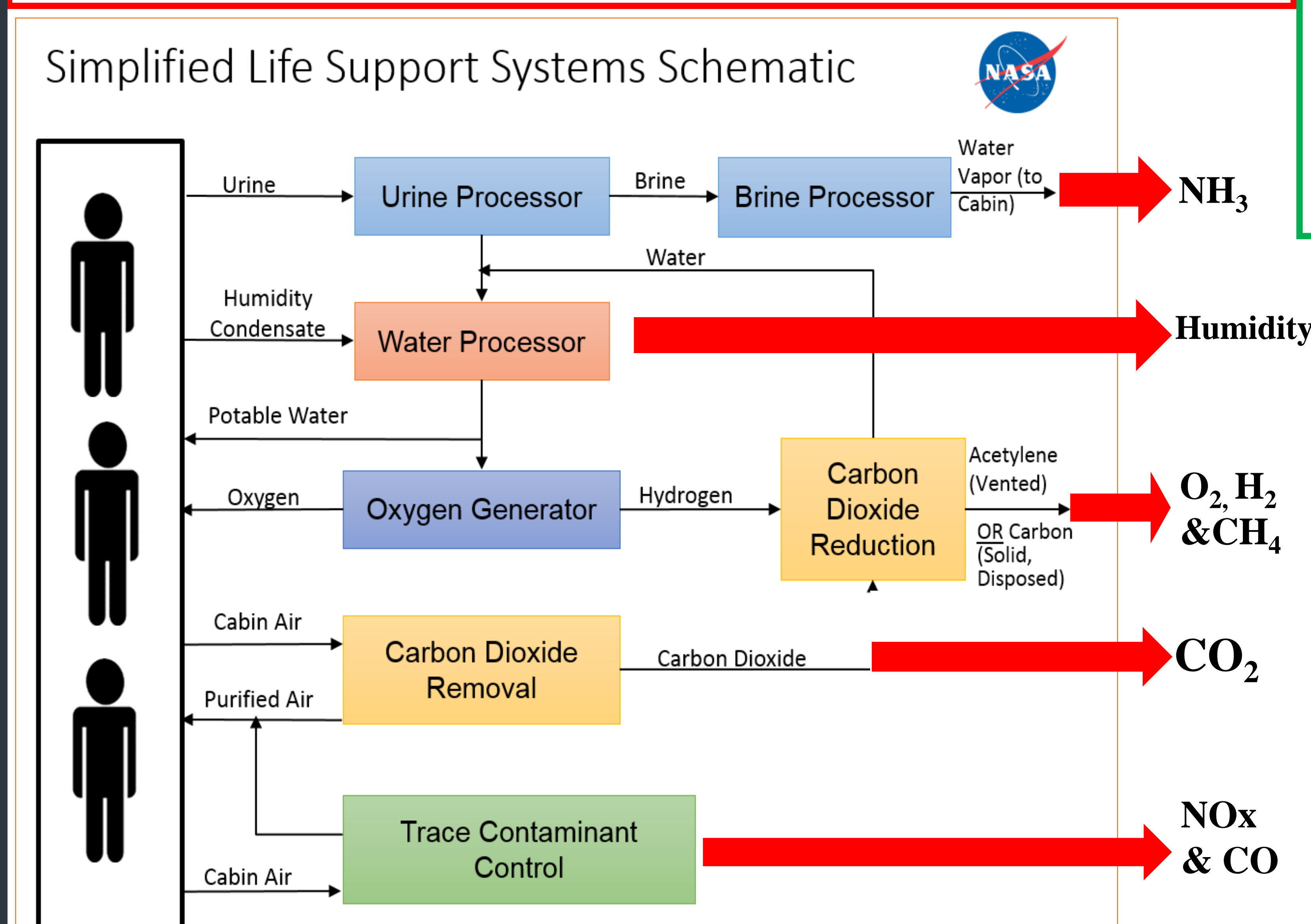
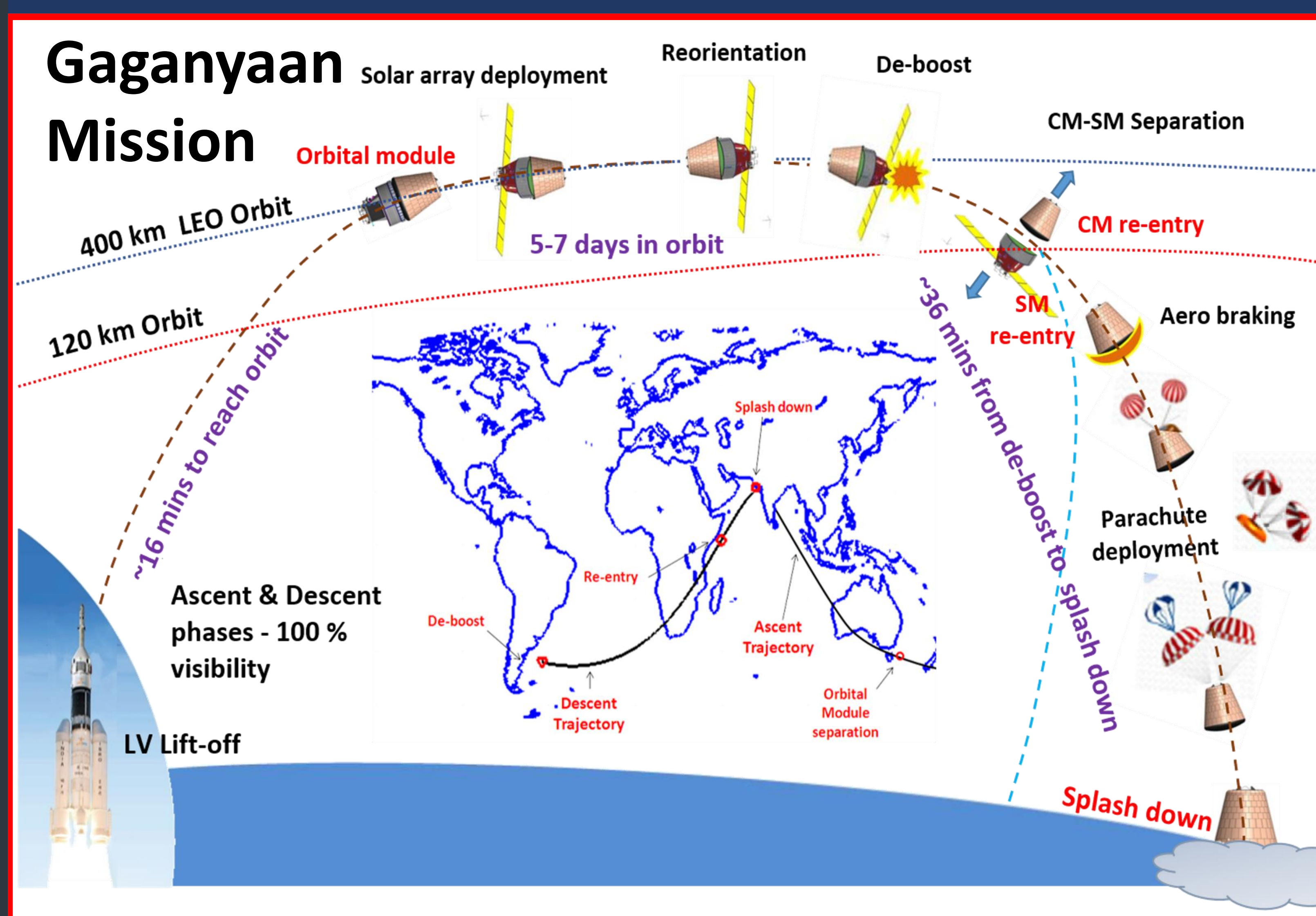
•Amala (Ph.D. Scholar)

•Akshaya M.V.(PhD Scholar-external candidate)

Biological sensor

• Krishna Pammi Thej (Ph.D. Scholar)

• Nusrat (Ph.D. scholar)



Motivation:

- ✓ There are no Space Qualified sensors available in the market.
- ✓ NASA has developed the first Sensor module by COTS. Currently NASA is exclusively using indigenously developed sensors for different gases
- ✓ NASA is proposing multitarget gas analyser.

Objective:

- Develop, Characterize and Qualify the Indigenously developed gas sensors (CH_4 , NH_3 , CO) to monitor Cabin/Spacecraft Atmosphere.
- Compare the Indigenous sensors against COTS one.
- Set up a characterization unit to qualify the sensors for Space Mission.

